

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

FRIDAY, FEBRUARY 5, 1909	
CONTENTS	
The American Association for the Advancement of Science:— The Study of Igneous Rocks: Professor Joseph P. Iddings	201
The Conduct of Scientific Work under the United States Government	217
Recent Work of the Mount Wilson Solar Observatory: Dr. Geo. E. Hale	220
The Brooks Memorial	222
Scientific Notes and News	223
University and Educational News	227
Discussion and Correspondence:— The Law of Radiation: Dr. J. M. Schae- BERLE. American Scientific Productivity: Professor J. McKeen Cattell	227
Scientific Books:— Böttger's Qualitative Analyse: Professor E. Renouf. Schorlemmer's Chemistry: Professor Henry Fay. Lead and Zinc in the United States: Dr. H. O. Hofman	229
Scientific Journals and Articles	232
Botanical Notes:— Physiology and Ecology; Economic Botany: PROFESSOR CHARLES E. BESSEY	232
Special Articles:— Sex Determination and Parthenogenesis in Phyllowerans and Aphids: Professor T. H. Morgan. Momentum Effects in Electric Discharge: Professor Francis E. Nipher	234
Societies and Academies:— The Anthropological Society of Washington: Dr. Walter Hough. The Geological Society of Washington: Dr. Ralph Arnold. The Chemical Society of Washington: J. A.	

MSS, intended for publication and books, etc., intended for review should be sent to the Editor of SCIENCE, Garrison-on-Hudson, N. Y.

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE THE STUDY OF IGNEOUS ROCKS 1

No branch of petrology presents so attractive a field for investigation and study as that concerned with the origin and formation of igneous rocks. The great problems of metamorphism that traverse so much of the earth's dynamic history and involve so many factors common to the problems of igneous rocks are less alluring because of their greater complexity, and less definite character. While much is being done in each of these fields of rock study, it is to the former that I wish to call attention at this time. It is interesting to note how the attitude of the petrographer toward the subject of igneous rocks has changed with increasing knowledge of their composition, and with advancing experience with the fundamental laws of physics and chemistry.

Rocks that were considered igneous a century ago were almost wholly those known to have poured forth from volcanic craters, and were, for the most part, compact, aphanitic lavas, often containing porphyritic crystals—distinctly volcanic rocks. The great number of phanerocrystalline massive rocks were not generally considered as having the same character and origin as volcanic rocks, as being igneous. Their formation was explained in different ways by various geologists. And when treated

¹Address of the vice-president and chairman of Section E—Geology and Geography—American Association for the Advancement of Science, Baltimore, 1908.